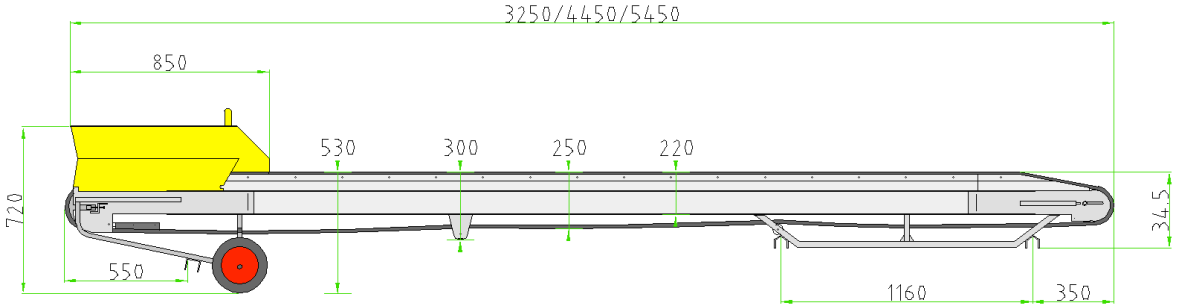
SHIFTA

MACE
INDUSTRIES LIMITED

Operating Instructions

The new SHIFTA range of heavy duty portable conveyors for fast and efficient movement of rubble, aggregate, soils etc...



NEVER USE WHEN UNDER THE INFLUENCE OF ALCOHOL OR DRUGS, OR IN ANY CIRCUMSTANCES WHICH COULD LEAD TO DANGER.

NEVER ALLOW CHILDREN TO OPERATE THIS MACHINE. ALWAYS KEEP ANIMALS AND CHILDREN OUT OF THE AREA IN WHICH THIS MACHINE IS BEING USED. ALWAYS WEAR THE APPROPRIATE SAFETY EQUIPMENT: HARD HAT, SAFETY BOOTS, GLOVES, FACE MASK, EAR DEFENDERS AND SUITABLE CLOTHING.

ONLY PEOPLE FULLY TRAINED IN THE SAFE OPERATION OF THIS MACHINE SHOULD BE ALLOWED TO OPERATE THIS EQUIPMENT. ALWAYS MAKE SURE YOU HAVE READ AND FULLY UNDERSTOOD THIS LEAFLET BEFORE OPERATING THIS MACHINE.

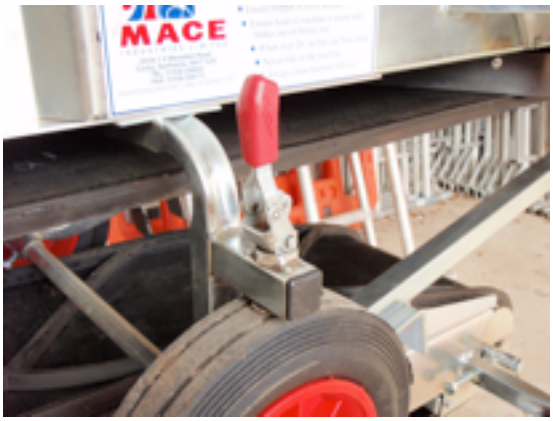
Purpose and use: The shifta conveyor has been designed to transport solid (non liquid - non dangerous) material such as stone, sand, gravel, rubble and soil. The material being moved must be loaded responsibly and with skill by the operator, so that no damage is caused by overflowing material from the conveyors. A maximum of 3 conveyors can be linked per 5kva transformer by way of a 110v 16amp system. A large hopper is fitted on the feeding side of the conveyor and any subsequent hoppers used in series (chained) have small receiving hoppers as standard. Each conveyor is supported by its own legs which have wheels fitted as standard, these wheels allow easy movement of the conveyor by one person. Raising the end of the conveyor is achieved by the provided trestles to enable chaining of various conveyors.

110v 16amp connection is made here by way of the supplied electricity- a standard 110v trailing socket is used

Starting the machine: The conveyors have two speeds and two directions Running speed slow 20 metres/min - - Running speed fast 28 metres/min speed changes are indicated by a turtle or a hare symbols on the control panel, press the switch once to change the speed of the unit to fast or press again for slow. depending on what type of material is used will determine how fast your conveyor is required to operate depending on material spillage.

The directions are indicated by the arrows on the control panel which is situated on the side of the unit. once power is supplied to the unit the middle button (stop switch) will be solid red, if a problem has occurred this button will flash red which indicates a reset is required, the reset is achieved by pressing the centre red button once, the directions are changed once pressed, so REVERSE to the left and FORWARD to the right. if you need to change direction during an operation, turn the unit off by pressing the middle red button before changing direction of the conveyor, (if the machine is not stopped before the direction is changed - damage will occur to the motor)
Note - if the conveyor belts do not start when the button is pressed - contact Mace Industries

Emergency stop systems: In the event of an emergency the unit can be stopped by way of pressing the red stop buttons sited on both sides of the machine.
In the event of an emergency stop being activated the unit will stop dead.
To reset the red stop buttons turn to the right and the mushroom button will pop out and the stop system is now reset.
To restart the conveyors you must follow the proceedure as detailed above

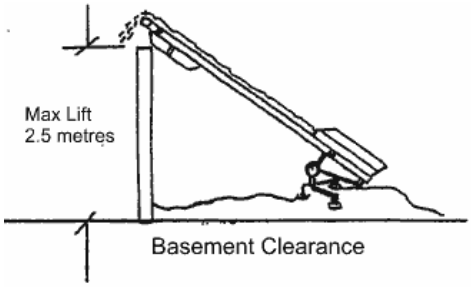


Wheel locks: Ensure the wheel locks are on before using the conveyors, this will prevent the units from moving if used on a slope.

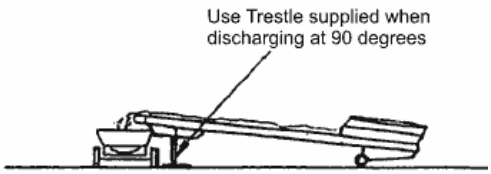
This can be achieved by using the lever is a downward action, which clamps the brake cup onto the tyre.

To remove the wheel locks simply pull up the lever.

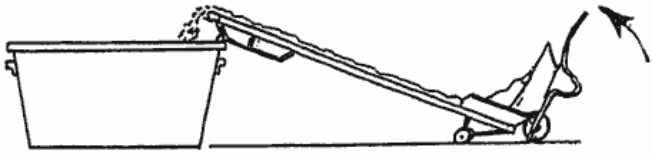
Fitting the hoppers:
Align the hopper slots on both sides so they line up with the domed pins, then push home until the slot is filled. see image on the right which shows the correct fitting. Extension to hoppers simply sit on top of the fixed hopper.



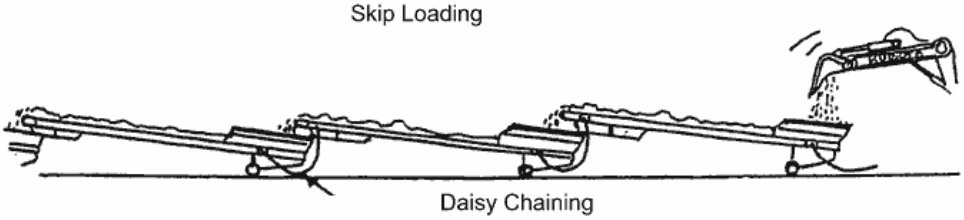
Basement Clearance



Daisy Chaining at 90 degrees



Skip Loading



Daisy Chaining

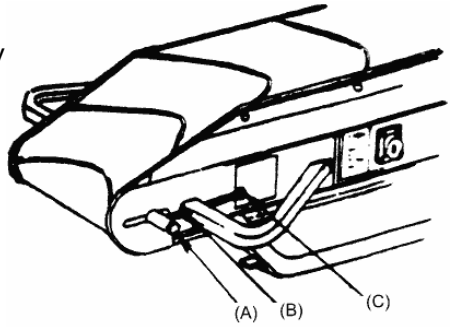
Safety instructions: To ensure safe, correct use of the machine, you must read this text thoroughly in advance.

Do not allow the conveyor belt to be used by minors or unauthorised persons.
Keep other people at a distance and never leave the conveyor belt unsupervised.
Children or anyone else can never 'hitch a ride' on the conveyor belt in any circumstance.
Only use the conveyor belt for materials that are not harmful or dangerous.
Never transport materials that could adversely affect or damage the conveyor belt.
Load the material on the conveyor belt in a way that ensures nothing can fall off over the side.
Start the conveyor belt unloaded to prevent the safety devices from switching off the power.

Always ensure that the power supply is equipped with a differential switch and an earth leak switch. The conveyor belt is activated by using the green start buttons. The red button halts the belt on the conveyor belt whose red button is pressed as well as the following conveyor belts. After the electricity is switched off, the machine is to be rinsed with a water hose and thoroughly cleaned.

Maintenance

Always isolate the machine from supply before attempting any electrical maintenance.



Main Belt tracking and adjustment

If the main belt slips under load it will need re-tensioning Loosen drum bolts 'A' (19mm A/F), Loosen lock nut 'B' (17mm A/F), then adjust tensioner bolt 'C' either side equally until correct tension is achieved. about 25mm should be sufficient. Track if necessary by adjusting the bolt on the side that the blt tracks toward with machine running. Re-tighten drum bolts 'A' when tracking is central to machine & re-tighten lock nuts 'B'.
Base Tracking

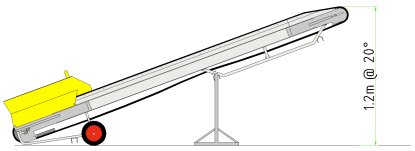
The Belt can be tracked at the base of the machine by adjusting the tracking bolts either side of the drive drum. Always ensure the lock nuts are tight after adjustment.

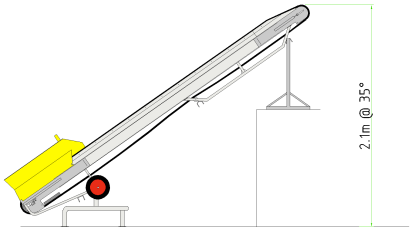
Checklist

Check all rollers are free running (trough and idler).
Check brakes operate correctly - grease periodically.
Check for any debris between belt and drive drum. Clean if required.
Check belt scraper condition.
Check all 240V sockets are serviceable.
Check all emergency stop buttons are serviceable.

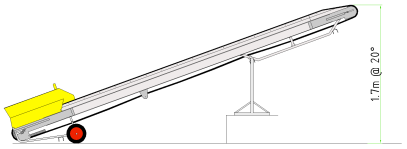
Max Angles

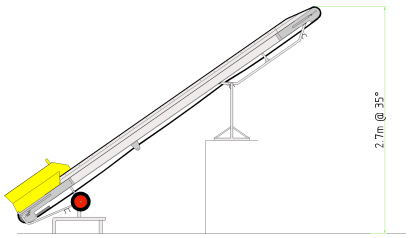
3.2 Metre Shifta



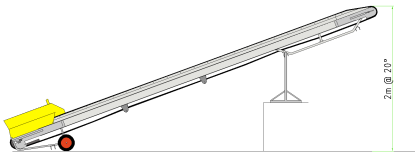


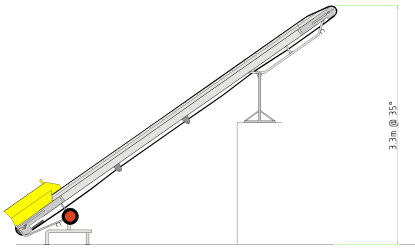
4.4 Metre Shifta





5.4 Metre Shifta





Accessories

Brush Attachment

Trestle

Greedy Hopper

Base Stand